Louisville Grain Elevat	tor Base Cost					
Description	Quantity	Unit		Unit Price		Total
3.1 Site						
Regrade to ensure drainage away from building	211	CY	\$	6.00	\$	1,266.00
Remove berm along west elevation (cut & fill on site)	50	CY	\$	6.00	\$	300.00
Install perimeter drain	250	LF	\$	21.00	\$	5,250.00
Remove 3 trees (2 on the north & 1 on the east)	3	EACH	\$	250.00	\$	750.00
3.2 Foundations						
Procure Geotechnical Engineer's Report for site	1	LS	\$	2,500.00	\$	2,500.00
Excavate around entire perimeter of site to access work	628	CY	\$	8.00	\$	5,024.00
Infill perimeter basement wall to Sections 1, 2, & 3	33	CY	\$	750.00	\$	24,750.00
Concrete	14	CY	\$	750.00	\$	10,500.00
Add counterforts & augment perimeter basement footing at	-	G)/	_	2 670 00	_	12 250 00
Sections 1, 2, & 3 Add 4 spread footings to Section 3 (below timber posts along grid 3	5	CY	\$	2,670.00	\$	13,350.00
	1	CY	\$	850.00	\$	850.00
and grid 4) Add 2 square footings to Section 3 (at ends of shear wall along grid	1	Ci	P	630.00	P	630.00
3 to resist overturning forces)	1	CY	\$	850.00	\$	850.00
Infill basement pit with flowfill	17	CY	\$	150.00	\$	2,550.00
·		Ç.	Ψ.	130.00	Ψ	2/330.00
Repair deteriorated bin walls below grade, add impervious						
waterproofing membrane; reinforce wall with PT lumber if required	17	CY	\$	750.00	\$	12,750.00
Add perimeter basement wall to Section 5	9	CY	\$	850.00	\$	7,650.00
Add strip footing to Section 5	above	CY		above		above
Allowance for footing augmentation where allowable bearing						
capacity exceeded or net tension due to shearwall overturning						
forces	1	LS	\$	15,000.00	\$	15,000.00
3.3 Building Structural System						
Section 1						
1st Floor: Remove abandoned stair; re-frame floor around stair	15	SF	\$	25.00	\$	375.00
opening	13	31	P	23.00	₽	3/3.00
Roof: Remove roof sheathing; sister rafters, add plywood sheathing	370	SF	\$	15.00	\$	5,550.00
3		0.	Ψ.	10.00	Ψ	2,555.55
Section 2						
2nd Floor: Remove fire damaged floor joists which have a very low						
calculated load-carrying capacity. Replace with new more robust	400	SF	\$	20.00	\$	8,000.00
joists spanning east-west bearing on exterior walls and on one	400	51	⇒	20.00	Þ	8,000.00
timber beam spanning north-south across center of bay.						
Roof: Remove roof sheathing, rafters, and 2 dropped purlins; Add						
new sheathing, rafters, and purlins	660	SF	\$	20.00	\$	13,200.00
Replace 100% of 2nd floor wall framing due to char damage	1375	SF	\$	6.00	\$	8,250.00
Section 3	10,0	<u> </u>	7	0.00	7	0/200.00
Add 1 timber post from 3rd floor to basement wall on grid 3 and			١.			
grid 4 to support 3rd floor timber beams near midspan	19	LF	\$	30.00	\$	570.00
6th Floor Mezzanine: Add 2 strongbacks to north gable end wall at	20		_	20.00	_	600.00
floor diaphragm elevation to brace wall studs at hinge	20	LF	\$	30.00	\$	600.00
Roof: Remove roof sheathing, rafters, and 2 dropped purlins; Add	750	SF	4	20.00	\$	15,000.00
new sheathing, rafters, and purlins	730	31	\$	20.00	Þ	15,000.00
Section 4						
Wood scientist for one day to quantify extent of bin wall and bin						
floor deterioration by resistance boring after excavation complete	1	LS	\$	1,500.00	\$	1,500.00
incor deterioration by resistance berning direct executation complete						
Roof: Remove roof sheathing; leave existing rafters; add rafters @						
24" between existing rafters; enhance connections; strengthen 2	1330	SF	\$	20.00	\$	26,600.00
dropped purlins; add plywood sheathing					'	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
11 1 , 1,						
Section 5						
1st Floor: Shore floor to reset dropped girders on new posts on new	3	Places	\$	1,000.00	\$	3,000.00
footings or on new stem wall			+ -	,		·
Roof: Remove roof sheathing; sister rafters in north bay, add	935	SF	\$	20.00	\$	18,700.00
plywood sheathing, add hurricane ties on ends of rafters					·	
Roof: Anchor existing ledger on grid 4 to bin wall	30	LF	\$	10.00	\$	300.00
Roof: Shore rafters, remove and replace existing overstressed	28	LF	\$	101.25	\$	2,835.00
girder with steel beam or equivalent Sections 1, 2, 3, & 5; Lateral Force Resisting System			+			
Miscellaneous drag strut and collector elements. Will drag some			1			
force into existing bin walls in order to minimize number of new	1	LS	\$	1,000.00	\$	1,000.00
wood shear walls	_		۳	1,000.00	Ψ	1,000.00
mode Siledi Mulis	<u> </u>	·	1			

All Sections, Floor Framing			1			-
Allowance to remove and replace structural elements affected by						
fire. Includes damaged elements requiring replacement and						
, , ,	F2F	CF	_	25.00	_	12 125 00
structurally acceptable elements to be replaced for aesthetic or odor	525	SF	\$	25.00	\$	13,125.00
reasons. (100% of 3rd floor framing, 30% of 4th floor framing,						
100% of 6th floor framing)						
Allowance for miscellaneous structural repairs and unknown	1	1.0	_	15 000 00	\$	15,000.00
conditions	1	LS	\$	15,000.00	Ψ	
3.4 Exterior Wall Construction & Envelope						
Structural Recommendations						
Section 3						
Replace existing studs damaged by fire	80	EACH	\$	18.00	\$	1,440.00
Add strongbacks to lines 3, A, Z at sixth floor	50	LF	\$	80.00	\$	4,000.00
Section 4						
Cut small openings in bin walls for needle beam shoring. Shore bin						
walls, remove deteriorated stacked-plank lumber with demo saw.						
Tooth in Douglas-Fir 2x6 plies and attach plies with adhesive and	3	EACH	\$	5,163.33	\$	15,490.00
toenails from each side. Correct smaller defects with epoxy						
consolidant						
Section 5						
Sister tall studs along grids A & Z	16	EACH	\$	18.00	\$	288.00
Sections 1, 2, 3, & 5; Basement Stud Walls						
Replace deteriorated or damaged interior sills and plates on	12	LF	\$	35.00	\$	420.00
gridlines 2 and 3	12		Ψ	33.00	Ψ	120.00
Sections 1, 2, 3, & 5; Lateral Force Resisting System						
Selectively sheath existing stud walls to use as wood shear walls;						
add blocking, holdowns, and anchors into existing foundation.					\$	3,498.00
add blocking, floidowns, and afficilits into existing foundation.	1166	SF	\$	3.00		
Architectural Recommendations						
Remove and replace wood shiplap siding	920	SF	\$	8.00		7,360.00
Remove and replace wood tongue and groove siding	2100	SF	\$	8.00	_	16,800.00
Remove lead containing paint from exterior of building	6482	SF	\$	2.00	_	12,964.00
Repaint exterior of building	6482	SF	\$	1.50	\$	9,723.00
Repaint historic sign on exterior of building	550	SF	\$	8.00	\$	4,400.00
2 F F						
3.5 Envelope - Roofing & Waterproofing						
Remove current roofing - corrugated sheet metal & asphalt shingles	3880	SF	\$	1.00	\$	3,880.00
Install Berridge corrugated metal roof	3880	SF	\$	4.00	\$	15,520.00
Install snow guards on the east and west edges of Sections 2, 2 % 4						ļ
Install snow guards on the east and west edges of Sections 2, 3 & 4	120	LF	\$	15.00	\$	1,800.00
3.6 Windows & Doors						
Restore all windows						
Reconstruct eight lite double hung wood windows and frames to						
match original (2'x5')	6	windows	\$	900.00	\$	5,400.00
Reconstruct eight lite double hung wood windows to match			1			
original - epoxy stabilize existing frames (2'x5')	3	windows	\$	900.00	\$	2,700.00
Reconstruct four lite fixed wood window (approx. 2'x2')	1	window	\$	360.00		360.00
Reconstruct four lite fixed wood window (approx. 2'x3')	2	windows	\$	540.00		1,080.00
Reconstruct two lite double hung window (8"x5')	1	window	\$	350.00		350.00
Restore all doors	-		Ψ	550.00	т	220.00
Replace 50% of the wood on the sliding doors (6'x7')	3	doors	\$	945.00	\$	2,835.00
Sand and refinish 4 panel wood doors	2	doors	\$	250.00		500.00
Replace 50% of the wood boards composing exterior doors		23013	1		7	300.00
(3'x7')	4	doors	\$	472.50	\$	1,890.00
Remove, wire brush and oil all hardware that remains	3	sets	\$	85.00	\$	255.00
Install hardware to match historic	3	sets	\$	235.00		705.00
New hinges and track for sliding door to match original (2 hinges, 1		2000	1		7	. 00.00
overhead track 7' long)	3	sets	\$	700.00	\$	2,100.00
			T .		-	,

3.7 Interior Finishes						
Replace char damaged wood not covered in previous sections	1	lump sum	\$ 2	5,000.00	\$	25,000.00
Replace 100% of floor boards in Sections 1,2,3 & 5 (varies from						
1"x6" or 1"x8" or 1 1/2" x 10)	3286	SF	\$	4.00	\$	13,144.00
Remove non-historic stair from 1st to 2nd floor & install new stair	1	lump sum	\$	1,500.00	\$	1,500.00
Reinstall stairs on 2nd - 6th floors after new flooring is installed	4	sets	\$	500.00	\$	2,000.00
Media blast all wood surfaces in the building (optional, not in total)	24372	SF	\$	2.50	\$	60,930.00
3.8 Mechanical Systems						
NA .						
3.9 Electrical Systems						
NA						
General Conditions		l Mo	± 4	5 000 00	_	45.000.00
Assumed 90 Day Duration	3	MO	\$ 1	5,000.00	\$	45,000.00
Subtotal Hard Construction Costs					\$	439,347.00
Bond (1.5%)						
Builder's Risk Insurance						
Permits & Plan Review						
Subtotal Construction Costs						
	\$	68,076.82				
Subtotal					\$	521,922.27
Contingency (during design) - 5%						
Subtotal					\$	548,018.38
	es (10%)	\$	54,801.84			
Subtotal					\$	602,820.22
Owner Contingency (for construction) - 10%						
Total Construction Costs						663,102.24
Hazardous material mitigation - plan development and mitigation work per report in HSA Appendix						21,281.25 684,383.49
Total Costs						